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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,691	02/06/2004	Vinod B. Shidham	128880.00002	7800
26710 7590 07/25/2008 QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE SUITE 2040 MILWAUKEE, WI 53202-4497				
EXAMINER				
TOWA, REINE T				
ART UNIT		PAPER NUMBER		
3736				
MAIL DATE		DELIVERY MODE		
07/25/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/773,691

Applicant(s)

SHIDHAM ET AL.

Examiner

RENE TOWA

Art Unit

3736

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 59-77 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 59-77 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 14, 2008 has been entered.
2. This Office action is responsive to an amendment filed April 14, 2008. Claims 59-77 are pending. Claims 1-58 have been cancelled. New claims 59-77 have been added.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. **Claims 59, 61-66, 68, 70-75 & 77** are rejected under 35 U.S.C. 103(a) as being unpatentable over Markham (US 4,549,554) in view of Eldridge (US 4,207,870).

In regards to **claims 59, 63, 68, 72 & 77**, **Markham** discloses a syringe 10 including a barrel 12 and a piston 22 slidable with the barrel, the syringe barrel 12 extending along and concentric about a long axis and configured to introduce a vacuum flow;

a valve 28 for controlling transmission of the vacuum flow from the syringe 10 (see figs. 1-2; col. 3, lines 28-37 & 45-55).

However, in regards to **claims 59, 68 & 77**, Eldridge discloses a high specimen yield anti-reflux head, comprising:

- a cup-shaped hub 10 having a bottom wall surrounded by a sidewalls extending from the bottom wall along a hub 10 axis terminating at a peripheral mouth;

- a releasable collar 12 fitting in a liquid tight seal over the peripheral mouth of the hub 10 to define within the hub 10 and collar 12 a specimen collection volume;

- an opening in the hub 10 bottom wall receiving a proximal end of a hypodermic needle 14 extending substantially parallel to the hub 10 axis;

- a conduit communicating between a lumen of the hypodermic needle 14 received by the opening in the hub 10 bottom wall and an interior opening into the specimen collection volume proximate to one side wall, removed from the bottom wall;

whereby when the axis of the hub 10 is horizontal, the interior opening into the specimen collection may be positioned by an operator in a top position such that sample material from the hypodermic needle 14 entering the specimen collection volume through the interior opening collects against the opposite sidewall in a pool spaced from the interior opening to prevent reflux of the material through the interior opening, and when the axis of the hub 10 is vertical with a distal end of the hypodermic needle 14 extending downward, sample material collects against the bottom wall spaced from the interior opening to prevent reflux of the material through the interior opening (see figs. 1-4; see abstract; see col. 3, lines 32-41).

In regards to **claims 61 & 70**, Eldridge discloses an anti-reflux head wherein at least the side walls of the hub are transparent (see abstract; see col. 3, lines 32-41).

In regards to **claims 62 & 71**, Eldridge discloses an anti-reflux head wherein the conduit is configured to be visible through the transparent side walls such that an operator can easily identify the top position (see col. 3, lines 32-41).

In regards to **claims 65 & 74**, Eldridge discloses an anti-reflux head wherein the peripheral mouth is capable of receiving a lid to enclose the specimen collection well when the releasable collar 12 is released from the hub 10 (see figs. 1-4).

In regards to **claims 66 & 75**, Eldridge discloses an anti-reflux head wherein the peripheral rim defines a greatest separation of side walls to facilitate access to the specimen collection volume (see figs. 1-4).

In regards to **claims 59, 61-63, 66, 68, 70-72, 74-75 & 77**, since it is known to provide biopsy needle devices with a secondary hub carrying needle with a means for a quick and simple relief of the vacuum without dilution of the specimen or contamination thereof (see abstract; see figs. 1-2 of US 4,967,762), it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide the needle biopsy device of Markham with an anti-reflux head as taught by Eldridge in order to quickly and simply relieve the vacuum without dilution of the specimen or contamination thereof.

In regards to **claims 64 & 73**, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide the needle biopsy device of Markham as modified by Eldridge above with a specimen collection volume that is greater than 100 microliters as claimed in order to collect a volume of specimen sufficient for carrying out a biopsy test.

5. **Claims 67 & 76** are rejected under 35 U.S.C. 103(a) as being unpatentable over Markham ('554) in view of Eldridge ('870), and further in view of Guerra (US 3,753,432).

Markham as modified by Eldridge disclose an anti-reflux head, that fails to explicitly teach an anticoagulant surface or an interior opening that is directed toward an opposite side wall.

However, **Guerra** teaches a device comprising an anti-coagulant coated surface (see col. 5, lines 1-7); wherein an interior opening is directed toward an opposite side wall (see fig. 1).

It would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide the anti-reflux head of Markham as modified by Eldridge above with an anticoagulant specimen collection volume as taught by Guerra in order to achieve a device that prevents the collected specimen from drying thereby facilitating testing.

6. **Claims 60 & 69** are rejected under 35 U.S.C. 103(a) as being unpatentable over Markham ('554) in view of Eldridge ('870), and further in view of Dann et al. (US 2,840,075)

Markham as modified by Eldridge disclose an anti-reflux head, that fails to explicitly teach an interior opening that is directed toward an opposite side wall.

However, **Dann et al.** disclose an apparatus comprising a specimen passageway 30; wherein an interior opening of the specimen passageway 30 is directed toward an opposite side wall (see figs. 4-5).

Since both Eldridge and Dann et al. teach device for visually observing the puncture of the vein, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide the anti-reflux head of Markham as modified by Eldridge with an interior opening that is directed toward an opposite side wall as taught by Dann et al. in order to more visibly observe the passage of blood into the collection well (see Dann et al., col. 1, line 66 to col. 2, line 13; col. 2, lines 65-68; col. 3, lines 3-9, 14-16 & 33-39).

Response to Arguments

7. Applicant's arguments filed April 14, 2008 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RENE TOWA whose telephone number is (571)272-8758. The examiner can normally be reached on M-F, 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. T./
Examiner, Art Unit 3736

/Max Hindenburg/
Supervisory Patent Examiner, Art Unit 3736